

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: April 22, 1999

ATTY DOCKET NO.
169/MU-1296/P9558-04SERIAL NO.
09/244,037APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
February 4, 1999GROUP
2774 2734

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	5,282,019	1-25-94	Basile et al.	—	—	
AS	AB	5,311,547	5-10-94	Wei	—	—	RECEIVED
AS	AC	5,267,021	11-30-93	Ramchandran et al.	—	—	MAY 12 1999
AS	AD	5,038,219	8-6-91	Yamashita et al.	—	—	Group 2700
AS	AE	5,105,442	4-14-92	Wei	—	—	
	AF	5,087,975	2-11-92	Citta et al.	—	—	99 APR 23 PM 2:45
	AG	5,086,340	2-4-92	Citta et al.	—	—	RECEIVED
	AH	5,142,353	8-25-92	Kageyama et al.	—	—	2700
	AI	5,197,061	3-23-93	Halbert-Lassalle et al.	—	—	PM 2:45
	AJ	5,291,289	3-1-94	Hulyalkar et al.	—	—	
	AK	5,166,924	11-24-92	Moose	—	—	
AS	AL						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AS	AM	0506400A2	9-30-92	Europe	—	—	
AS	AN	0448492A1	9-25-91	Europe	—	—	

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	AO	Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085
AS	AP	P. Hoeher et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1.1 - 2.1.7
AS	AQ	K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV*, 1992, Pages 283-292

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DATE CONSIDERED

05/12/00

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	AA						
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	AD						MAY 12 1999
	AE						Group 2700
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AS	AG	0485108A2	5-13-92	Europe	—	—	
AS	AH	0525641A2	2-3-93	Europe	—	—	
AS	AI	0540231A2	5-5-93	Europe	—	—	99 APR 23 PM 2:46
AS	AJ	0531046A2	3-10-93	Europe	—	—	RECEIVED
AS	AK	85/04541	10-10-85	WO	—	—	GR.GUP 2700
	AL						
	AM						
	AN						
	AO						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	AP	K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.
AS	AQ	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.

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	AA						RECEIVED MAY 12 1999
	AB						Group 2700

FOREIGN PATENT DOCUMENTS

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	AC						
	AD						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	AE	William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.
	AF	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.
	AG	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207.
	AH	English Language Abstract of European Patent No. 93 30 7575
	AI	Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 International Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.
AS	AJ	Thomas M. Cover, Broadcast Channels, IEEE Transactions on Information Theory, January 1972, Pages 2-14
	AK	
	AL	
	AM	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	5,398,073	3-14-95	Wei	—	—	
AS	AB	5,452,015	9-19-95	Hulyalkar	—	—	
	AC	5,565,932	10-15-96	Gitta et al.	—	—	
	AD	5,481,412	1-2-96	Bannai et al.	—	—	
	AE	3,909,721	9-30-75	Bussgang et al.	—	—	
	AF	4,227,152	10-7-80	Godard et al.	—	—	
	AG	4,525,846	6-25-85	Bremer et al.	—	—	
	AH	4,751,478	6-14-88	Yoshida	—	—	
AS	AI	4,891,806	1-2-90	Farias et al.	—	—	

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AS	AJ	0282298	9-14-88	Europe	—	—	X
AS	AK	0392538	10-17-90	Europe	—	—	X
AS	AL	0490552	6-17-92	Europe	—	—	X
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	AN						

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AS	AA	4,903,125	2-20-90	Parker	O/P/E	—	
AS	AB	4,937,844	6-26-90	Kao	APR 07 2000	—	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

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	AN						

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